



HR Net

Connecting HR Providers

Information
Briefing
& Demonstration





AGENDA



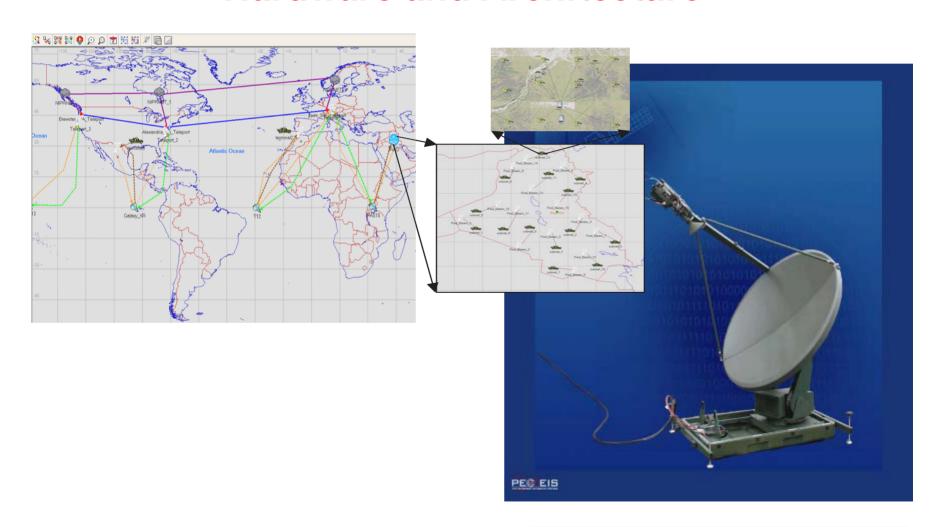
- Program Overview
- The Capability Deficit
 - ✓ The Situation
- HRNet A Potential Solution
 - ✓ HR Applications
 - ✓ Challenges On-Ground Situation
- > Summary







Hardware and Architecture





What is CSS SATCOM / VSAT?



- > Combat Service Support Satellite Communications
- Exploitation of IP-based commercial satellite technology
 - √ Very Small Aperture Terminals (VSAT)
- Provides "reachback" communications to the .mil
- Directly supports deployed combat service support business systems in the tactical battlespace
 - ✓ HR Functions, Logistics, Medical



What HR Providers are going to get... Remote CSS SATCOM Terminal



> Features

- √ 1.2 m motorized or manual antenna
- ✓ IP Access
 - ➤ Demand Assigned Multiple Access
 - ➤ 2 Mbps downloads
 - ➤ 256 kbps uploads
- ✓ Security
 - ➤ Bulk transport encryption
 - > FIPS -140-2 Certification
- ✓ Transportable
 - > 4 Transport cases
- ✓ Quality of Service
 - ➤ By Terminal ID
 - ➤ By IP address
 - > By application type
 - ➤ By protocol





What HR Providers are going to get... CAISI



- CLIENT MODULE
 - ✓ CONNECT UP TO 7 COMPUTERS TO LAN





- BRIDGE MODULE
 - ✓ CONNECT UP TO 14 COMPUTERS TO LAN
 - ✓ RADIO RELAY
 - ✓ DSL BACKUP
 - ✓ CONNECT TO Military/COMMERCIAL COMMUNICATIONS





- SYSTEM SUPPORT REPRESENTATIVE KIT
 - ✓ LAPTOP WITH COMPONENT CONFIGURATION SOFTWARE

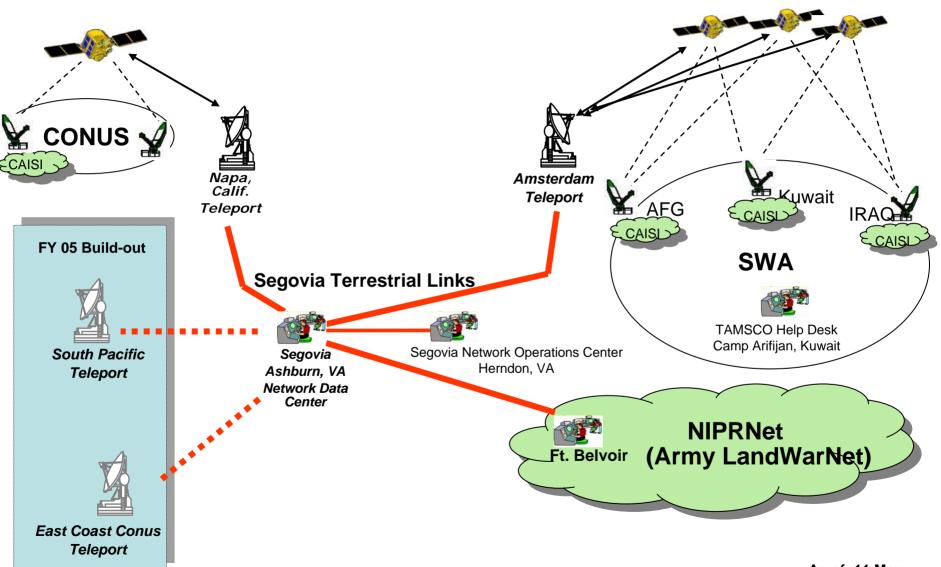






Current CSS VSAT Architecture





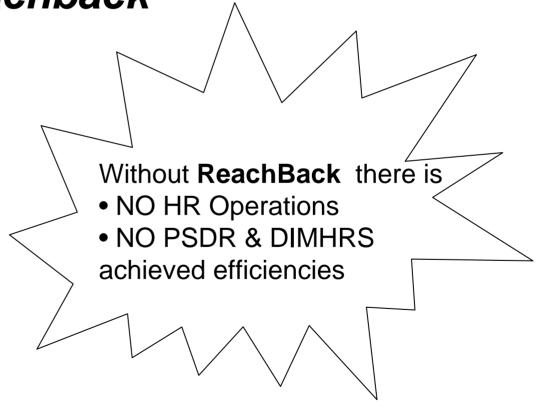
As of: 11 May



The Capability Deficit



➤ Without dedicated and reliable connectivity there is *no reachback*

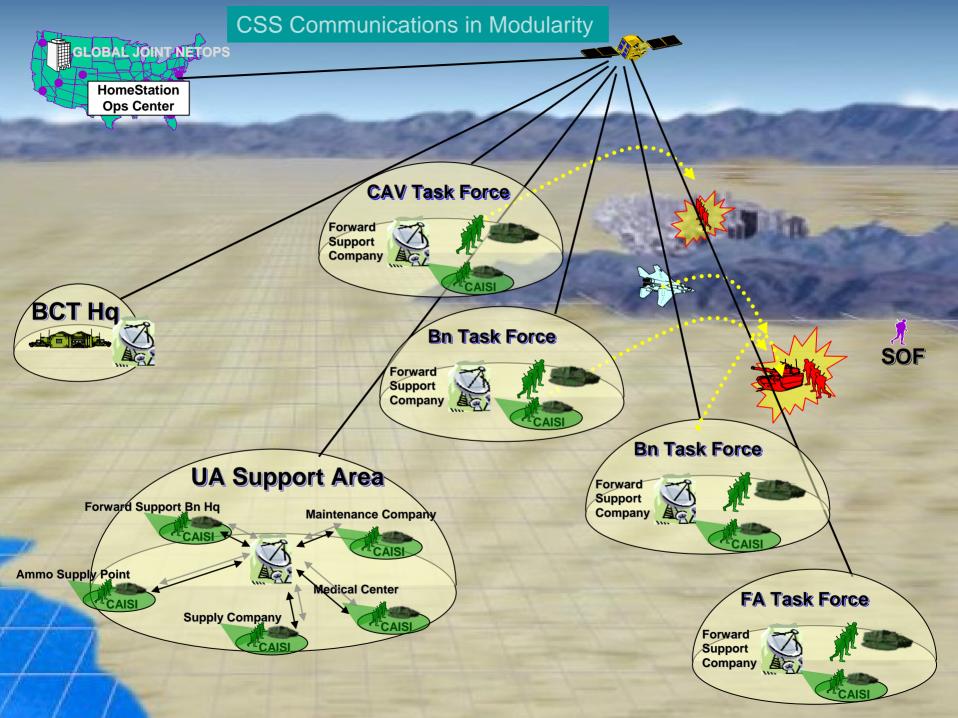


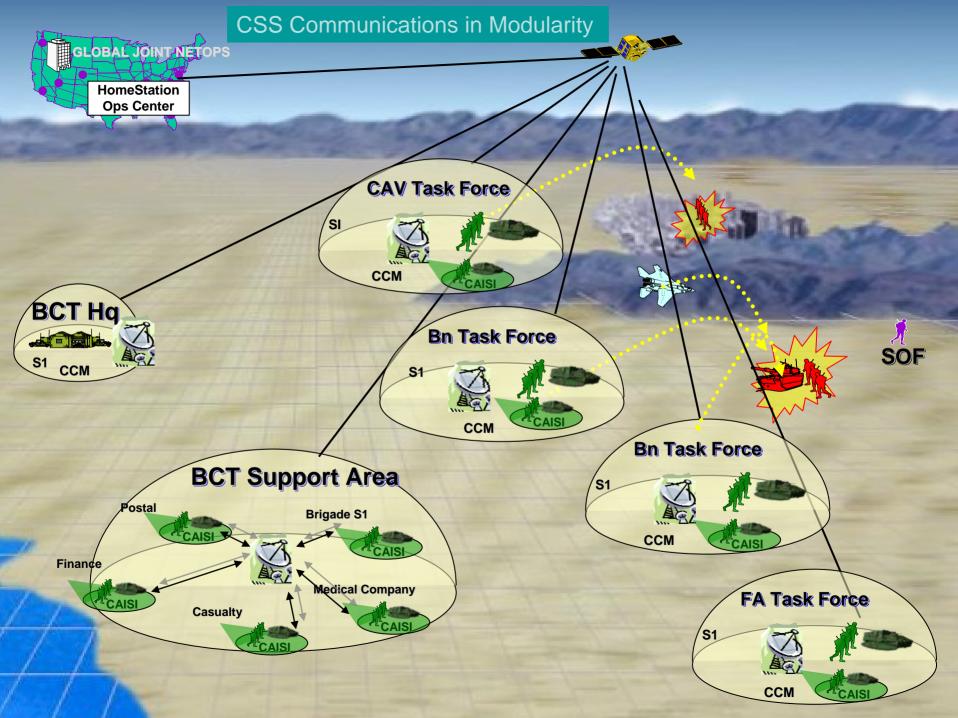


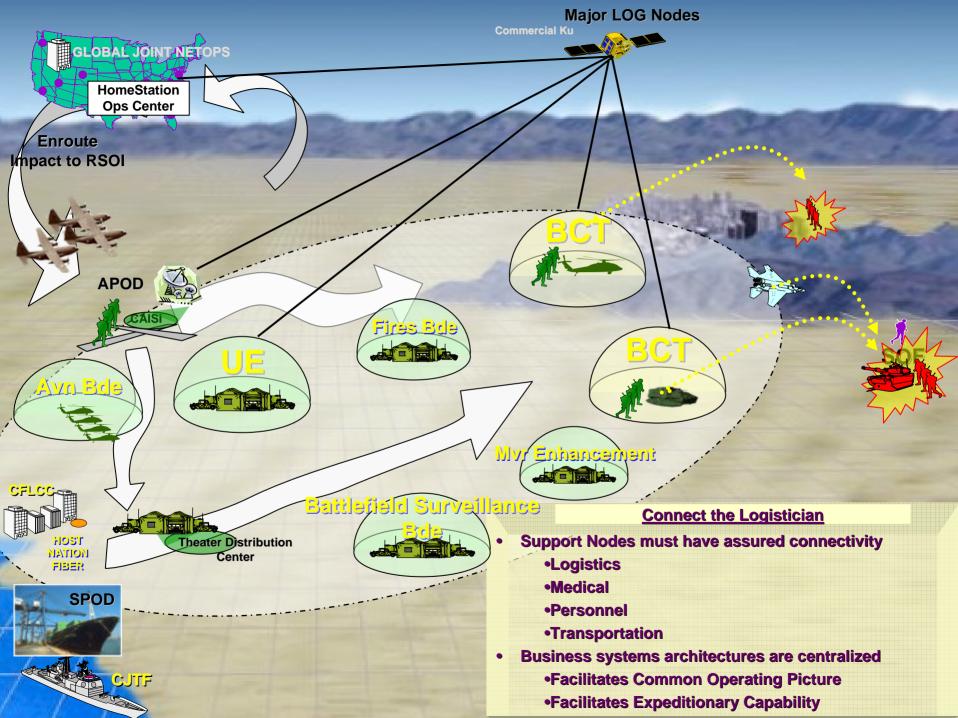
VSAT/CAISI in Support of OIF

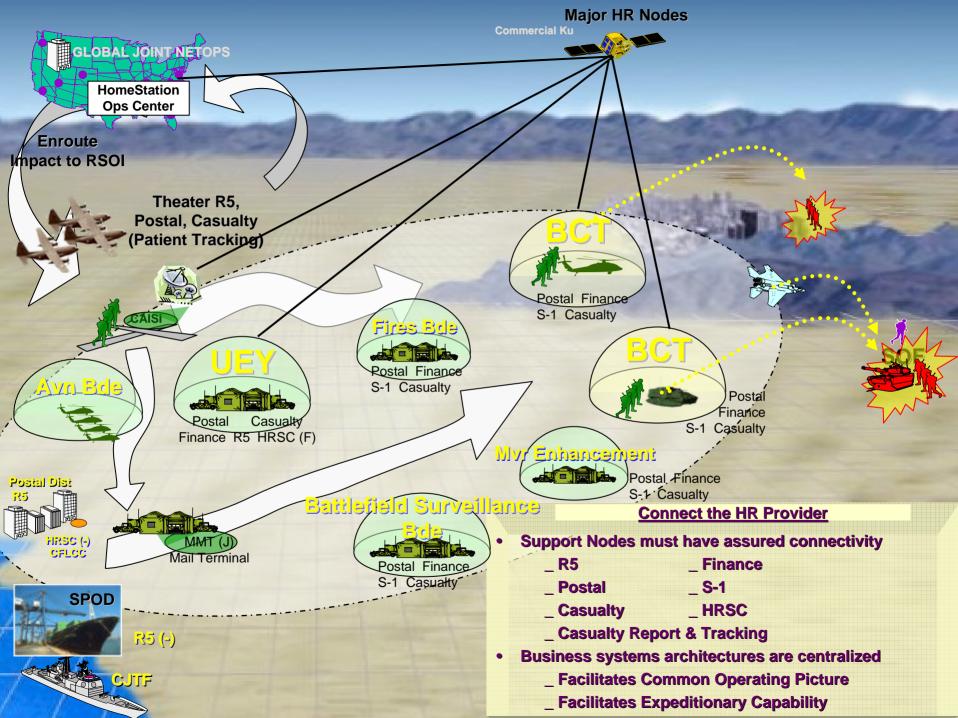


- ➤ Currently 53 VSAT/CAISI employed in Iraq supporting 3ID, USMC, 3ACR, 42ID
- ➤ G4 Fielding Scheme
 - ✓FSC, FSB, UA SPT AREA, ASP, MAINT CO
- ➤ Potential Application for HR Providers
 - ✓BN & BDE SI, POSTAL, FINANCE, R5, HRC, HRSC, CASUALTY REPORT & TRACKING













HR Net ... A Potential [Connectivity] Solution





How will HR Applications Operate via VSAT/CAISI?



> To understand we tested seven (7) HR applications deemed common at the BDE support level

√ e MILPO

✓ Retain

✓ DCIPS-F

✓ EDAS

✓ Digital Send (F2F)

✓ TOPMIS ✓ CAC

- > Applications were run individually and in combination
- > Capture tools were utilized to determine unique bandwidth and system requirements



Conclusion



- ➤ All Applications are currently useable across the satellite network
- No reports of excessive application delay or performances issues
- > Majority of applications are low-bandwidth



HR Community Challenges



- Familiarization and Training
 - ✓ 2 VSAT/CAISI to SSI 12 May 05
- Real World Results
- Philosophical Course Correction
 - ✓ Best possible application is worthless if you can't connect reliably on demand
 - ✓ Connectivity Bandwidth is the pacing item & applications must be tailored to perform utilizing VSAT/CAISI



HR Community Challenges (continued)

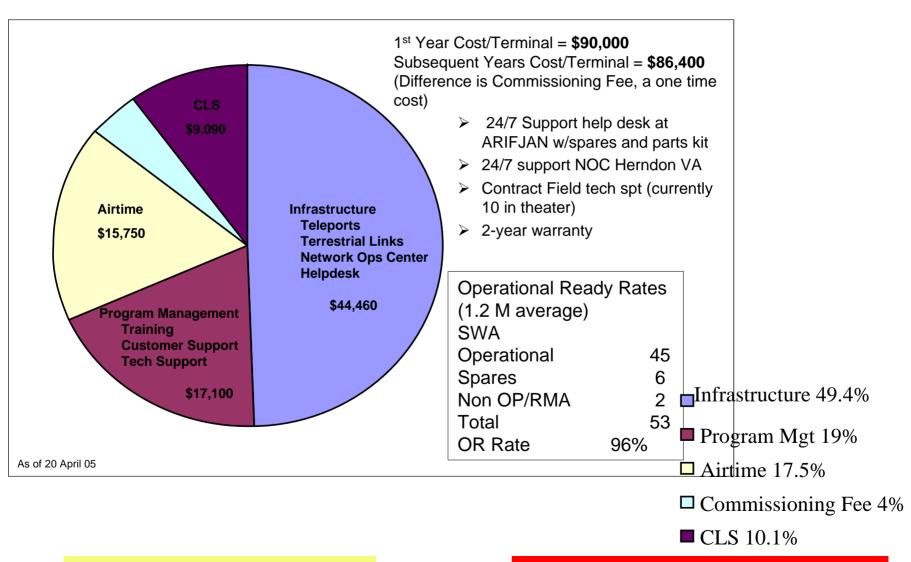


- ➤ HR Providers must demand access to CSS SATCOM
 - √ 1/4 Co-Location w/VSAT (w/capacity)
 - √ 1/4 Co-Location w/VSAT (w/o capacity)
 - √ 1/4 not Co-Located
 - ✓ Independent SRC 12 (HR Structure)
- Impediments to Connectivity (Firewalls, IP, Access) at host must be eliminated
 - ✓ Ongoing action at HRC





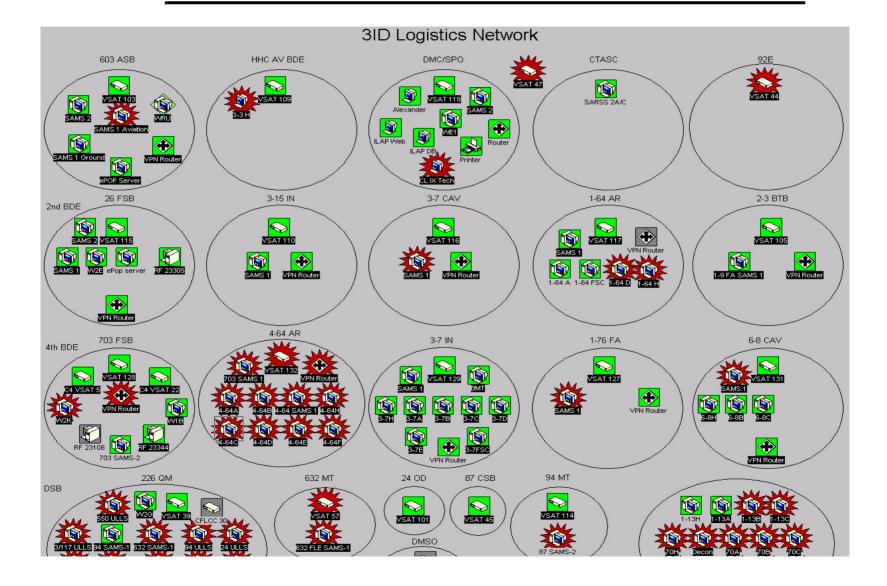
CSS VSAT: Per Year Operations and Maintenance Cost





Making a Difference 3ID CSS/VSAT Info Systems in OIF 3









Summary



Summary



- CAISI = A wireless LAN (last mile)
- CSS SATCOM = A VSAT based Wide Area Network (Beyond Line of Sight long-haul)
- CAISI + CSS SATCOM: A global network solution that extends the NIPRNET into the tactical battle space connecting logisticians and their sensitive but unclassified (SBU) automated information systems.



Summary



- Capabilities and Features:
 - ✓ Allows operations at the quick halt
 - ✓ Supports up to SBU data transmission into the NIPRnet
 - ✓ Completely IP-Based, re-packaged COTS
 - ✓ CAISI and remote satellite terminals Soldier owned and operated
 - ✓ Supporting satellite network infrastructure in sanctuary and contractor supported (system complexity is here, not with Soldier)

> Scope

- √ ~\$350M across POM and growing {Sustaining PEG}
- ✓ Multi-Service
- ✓ Global 24/7 enabler for Global War on Terrorism



Questions?







